

The Contest JUG



NEWSLETTER OF THE
NORTHERN CALIFORNIA CONTEST CLUB
34456 COLEVILLE PLACE
FREMONT CA 94546

MARCH 1982

NUMBER 119

PRESIDENT: N6KB

VP/CC: N6KT

SCTY/TREAS: N6QW

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COMMITTEES: PROGRAM-K6OMB MEMBERSHIP-W6SZN FINANCE-N6AUV AWARDS-W6SZN

ARRL SCORES - CQP RESULTS

COMING EVENTS

MARCH MEETING PROGRAM

TOM SCHILLER, N6BT/AHØ WILL PRESENT THE STORY OF HIS SAIPAN
DXPEDITIONS ILLUSTRATED BY SLIDES.

MAR. 22: NCCC MEETING, 7:30PM, CWA
HALL, HAYWARD

APR.17-18: INTERNATIONAL DX CONVENTION,
HOLIDAY INN, VISALIA, CA

MAR.27-28: CQWW WPX SSB CONTEST

APR.26: NCCC MEETING, HAYWARD. ELECTIONS

APR.6: DEADLINE FOR MAILING ARRL DX
CONTEST SCORES (BOTH MODES)

MAY 29-30: CQWW WPX CW CONTEST

THE PREZ SAYS

WELL, WE K'D SOME B IN THE ARRL DX COMPETITION. CONGRATS TO ALL WHO TOILED
LONG AND HARD IN SUPPORT OF NCDXC'S EFFORT.

THE LAST MAJOR CONTEST OF THIS SEASON WILL BE THE CQWW WPX TWO-WEEKEND
EXTRAVAGANZA. ACCORDING TO MANY OF OUR MEMBERS, THIS IS THE CONTEST WHICH
IS THE MOST FUN. VP/CC RICH IS IN CHARGE OF OUR BATTLE PLANS.

THE MARCH MEETING IS THE LAST ONE PRIOR TO ELECTIONS. MANY OF YOUR CURRENT
OFFICERS ARE READY TO RETIRE NOW, AND WILL NOT SERVE AGAIN IN ANY CAPACITY.
IT IS THE APPROPRIATE TIME FOR BOLD NEW LEADERSHIP TO TAKE ITS PLACE AT THE
HEAD OF THIS LEADER AMONG CONTEST CLUBS.

NO CLUB IS BETTER THAN ITS MEMBERS, BUT NO CLUB EXCELS WITH LESS-THAN-EXC-
ELLENT LEADERSHIP. STAND UP AND BE COUNTED WHEN THE NOMINATIONS ARE OPENED AT
THE APRIL MEETING.

SEE YOU AT THE MARCH MEETING AND AT THE PIZZA PARLOR AFTER THAT.

73, BOB, N6KB

1982 ARRL DX CONTESTHIGH CLAIMED SCORESCW

<u>MULTI-MULTI</u>	<u>QSO</u>	<u>M</u>	<u>SCORE</u>
A16V	2701 X	343	2,779,000
KN6M	2738 X	316	2,595,000
K6ZM	1293 X	234	908,000

MULTI-SINGLE

N6IG	1550 X	306	1,423,000
W6BIP	-	-	660,000
K6DC	891	181	484,000

SINGLE OP

N6RO	1677 X	305	1,535,000
N6BV	1325 X	227	902,000
N6GG	825 X	216	561,000
W6GO	736 X	227	501,000
K6ANP	-	-	432,000
(15M) K6RU	648 X	156	303,000
W6VSY	310 X	54	50,000
WA6SRX	144 X	97	42,000
WA6FIX	-	-	37,000
AF6S	118 X	100	35,000
(40M) N6AUV	116 X	45	16,000
(20M) W6ATO	114 X	44	15,000
W6JD	75 X	47	11,000
K6SMH	61 X	52	10,000
(10M) N6BZA	93 X	22	6,000

PHONE

<u>MULTI-MULTI</u>			
KN6M	5226 X	361	5,650,000
N6RO	4227 X	430	5,400,000
A16V	3757 X	412	4,640,000
K6ZM	1549 X	295	1,370,000

MULTI-SINGLE

W6OWQ	1146 X	188	650,000
W6BIP	-	-	350,000

SINGLE OP

W6XR	2150 X	294	1,900,000
K6RU (OP-			
N6BZA)	2030 X	246	1,500,000
K6HNZ	1365 X	265	1,090,000
W6TPH	1273 X	249	950,000
K6ANP	900 X	198	570,000
WA6TQT	1356 X	119	480,000
K6DC	390 X	155	180,000
WB6NBG	375 X	126	140,000
K6ITL	300 X	137	120,000
(10M) WB6RFI	490 X	77	110,000
(15M) W6EEN	300 X	80	72,000
W6FQF	225 X	107	72,000
AC6V	225 X	104	70,000
<u>QRP</u> W6YVK	300 X	65	59,000
KA6ING	190 X	70	40,000

NEWS FROM LLOYD AND IRIS

DEAR FRIENDS,

WE HAVE JUST FINISHED 19 DAYS ON-THE-AIR AS W6KG/PZ1, OPERATING CW AND SSB ON 28,21,14,10.1,7,3.5 AND 1.8 MEGACYCLES. SOME 9,000 QSOs WERE MADE WITH HAMS IN 155 COUNTRIES. THE 155 COUNTRIES WAS A NEW RECORD FOR US FOR A 3-WEEK OPERATION. THIS WAS PROBABLY ACCOMPLISHED DUE TO THE FACT THAT PZ IS FAIRLY RARE, JANUARY IS A GOOD MONTH FOR DX, AND THROUGHOUT THE WORLD DX OPERATION SEEMS TO BE AT A PEAK LEVEL.

WE PARTICIPATED IN THE CQWW 160 CW CONTEST AND WON THE COUNTRY OF SURINAM.

WE LIVED AND OPERATED FROM THE QTH OF PZ1BU, WHICH CONSISTS OF A LARGE ESTATE ON THE SURINAM RIVER. THIS WAS THE FIRST TIME THAT WE OPERATED OUR DXPECTION ONLY 30 FEET FROM ANOTHER ACTIVE HAM, NAMELY PZ1BU, WHO WAS ON THE AIR OFTEN AT THE SAME TIME WE WERE. WE HAD NO INTERFERENCE BETWEEN THE TWO STATIONS WHEN ON DIFFERENT BANDS, AND ONLY MINOR INTERFERENCE WHEN OPERATING ON THE SAME BAND.

WE GO NEXT TO FRENCH GUIANA WHERE OUR CALL WILL BE FYØFOL. WE WILL BE THERE FOR ALL OF FEBRUARY, INCLUDING THE CW PORTION OF THE ARRL DX CONTEST.

73

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88

LLOYD COLVIN
W6KGIRIS COLVIN
W6QLPARAMARIBO, SURINAM
2 FEBRUARY, 1982

1981 CALIFORNIA QSO PARTY

SPONSORED BY THE NORTHERN CALIFORNIA CONTEST CLUB

de N6QW

What can be said about the 1981 CQP? Participation (number of entries) increased 10% to 180 logs. The average score of either a California or an out of state top ten station increased at least 15%. 10 California stations worked 57 or more multipliers; 11 out of state stations worked 45 or more California counties. Activity was up, and scores were up.

The winner of the high out-of-state single op trophy for 1981 is Mike Kelly, WDØEWD, with a new out of state record of 81,324. Mike was closely followed by Scott Zucker, WAØAVL, 1980's winner, who made one QSO less but got 2 fewer sections. The winner of the California DXpedition trophy for 1981 is Ken Ruddock, K6HNZ. County hunters remember Ken from previous years in Colusa, Glenn, and Tehama counties; his 1659 QSOs and 57 sections easily topped all other DXpeditions. The winner of the California single op trophy for 1981 is Larry Tyree, N6TR, with a score of 293,248, outdistancing Gary Caldwell, WA6VEF (Op N6BT) by almost 10K. The difference comes down to 53 QSOs and one multiplier - VE8. The QSO total difference was a result of a better rate for N6TR during the last three hours of the contest. Below are the top ten boxes for California and out of state stations.

CALIFORNIA SINGLE OPS

<u>Call</u>	<u>CW Qs</u>	<u>SSB Qs</u>	<u>MUL</u>	<u>SCORE</u>
N6TR	310	2063	58	293,248
N6BT	325	1998	57	283,347
N6BV	282	1488	58	221,676
AI6V	Ø	1855	58	215,180
K6HNZ	Ø	1659	57	189,126
KI6O	330	972	57	167,238
N6PE	362	882	56	159,600
N6QW	270	933	58	155,208
AA6G	41	1227	57	146,889
AA6RX	89	1085	57	138,909

OUT OF STATE

<u>CALL</u>	<u>CW Qs</u>	<u>SSB Qs</u>	<u>MUL</u>	<u>SCORE</u>
WDØEWD	168	501	54	81,324
WAØAVL	171	497	52	78,364
N4BAA	141	312	49	51,303
WA5DJK	154	249	48	46,080
WB5YXK	178	149	45	37,440
W1GNR	189	113	44	34,892
K7GM	156	187	41	34,522
W3HDH	152	166	42	33,096
WA1FCN	131	149	47	32,477
KD4XR	Ø	342	47	32,148

CALIFORNIA MULTI OPS

<u>CALL</u>	<u>CW Qs</u>	<u>SSB Qs</u>	<u>MUL</u>	<u>SCORE</u>
AJ6O (M-M)	151	1908	57	243,333
N6AHA (M-S)	105	1298	57	165,927
K6AA (M-S)	274	455	54	93,528
K6YA (M-M)	259	400	53	83,581
KS6H (M-S)	300	341	50	79,100

DX TOP FIVE

<u>CALL</u>	<u>CW Qs</u>	<u>SSB Qs</u>	<u>MUL</u>	<u>SCORE</u>
SM3DXC	41	1	33	4,125
JA1OP	46	Ø	23	3,174
JR7TJP	Ø	53	26	2,756
PY1NEZ	Ø	61	20	2,440
LU6EF	19	24	21	2,205

LOCAL QRM.....Rained so hard Friday night, the tent floor was like a waterbed. Weather at 9200' on Sat. continued poor, hampering oper. On Sunday, morning a pail of water left out, had a layer of ice 3/4" thick on top (N6AU/6)..... It was 40°F & 50 mph winds. Miserable!! (WA6OCU).....If I hadn't smoked my amp 1 hr B4 contest time, I suspect I could have done better. Murphy seems to live in my shack. (KQ6V).....This contest is a blast. Working 35 countries & WAC w/o trying made up for the missed multiplier, Wyo-(AA6RX).....Maybe Cal Int'l QSO Party would be a better name. Worked 47 countries & 334 DX QSOs. (AI6V)

OUT OF STATE STATIC.....After test was over, I discovered that my 2 el Quad, which I had confidently swung toward Cal on Sat, actually spent the entire contest pointing North. Next year I'll check it first. (K1ITS).....Another great Cal contest. Appreciate the super level of Cal participation. (K2PF).....Finally worked all Cal counties in 3 yrs of this contest. Best in one year (1979) was 50 but could only find 47 in both 80 & 81. Tks to the mobiles that made it possible.(WB5KIA) Enjoyed the contest - especially working it QRP. (WD8IDD).....Loudest consistent signals: K6HIH & N6RZ. Did not make any new ones & still missing Alpine with W6WB/6 (QSO in Oct 1979). What can I do to get a card form him? I plan to be in Visalia in the springtime. (HB9AW)

1980 Correction: An error was made in computing the score of one of the top ten stations, WB5KIA. The QSO totals are accurate, but the final score should be 30,645, raising WB5KIA from 8th to 7th place among out of state stations.

MISCELLANEOUS CONTEST DATA AND BAND BREAKDOWNS

CALIFORNIA SINGLE OPS

Call	10C	10P	15C	15P	20C	20P	40C	40P	80C	80P	TotC	Tot P	Mults	Missed
N6TR	35	1074	130	596	81	283	48	76	16	34	310	2063	58	-
N6BT	59	980	70	595	85	276	82	90	26	55	325	1998	57	VE8
N6BV	101	772	79	395	58	198	41	104	3	19	282	1488	58	-
AI6V	0	1024	0	567	0	90	0	91	0	83	0	1855	58	-
K6HNZ	0	787	0	589	0	165	0	60	0	58	0	1659	57	VE8
KI6O	89	486	83	287	84	136	61	33	13	30	330	972	57	VE8
N6PE	101	573	83	261	96	122	55	26	27	0	362	882	56	VE8, Wyo.
N6QW	68	493	105	274	54	76	31	45	12	45	270	933	58	-
AA6G	25	730	11	176	0	156	0	142	0	18	41	1227	57	VE8
AA6RX	53	519	0	338	36	173	0	52	0	3	89	1085	57	Wyo.

OUT OF STATE SINGLE OPS

WD0EWD	51	292	52	130	22	32	31	30	12	17	168	501	54
WA0AVL	40	353	53	60	43	54	32	19	3	11	171	497	52
N4BAA	31	148	44	74	37	59	26	20	3	11	141	312	49
WA5DTK	38	93	55	75	41	50	20	29	0	2	154	249	48
K7GM	20	17	37	26	44	46	32	68	20	30	156	187	41
WA1FCN	33	77	47	52	37	20	14	0	0	0	131	149	47

Most Competitive County- Santa Clara County (4 scores over 100K)

Most Competitive State- Texas (4 Scores over 10K)

Most Entries, one county- Santa Clara and San Mateo, 6 entries

Most Entries, state- Pennsylvania, 8 entries

All 58 California counties were found in someone's log; for those that missed Sierra, Siskiyou, Tehama, Yuba, Lassen, Madera, or Mariposa, activity was light.

For the Californians that missed VE8, either 20 or 10 were the bands to get one on. Wyoming showed up in many logs on 80M phone.

SCORE LISTING: (CW QSOs, Phone QSOs, Mults, Total Score)

M-S denotes multi-single entry; M-M denotes multi-multi entry)

* denotes new county or state record.

CALIFORNIA

CALIFORNIA					Monterey				
Alameda					* KQ6V	71	854	57	109,497
W6BSY	0	829	54	89,532	WA6OCV	0	2	2	8
K6ARE	101	2	32	9,824	Napa				
K6XO/M6	5	10	10	350	* K6XO/M6	100	167	39	24,726
Calaveras					Nevada				
* WA6KXN	0	808	49	79,184	* AI6V	0	1855	58	215,180
Del Norte					Orange				
W6NAT	0	236	43	20,296	N6PE	362	882	56	159,600
Fresno					N6UH	301	0	40	36,120
WB6ITM	0	49	23	2,254	Placer				
KS6H	300	341	50	79,100	* W6SZN	299	654	55	121,275
(M-S; KS6H, N6ZB ops)					Plumas				
Humboldt					* K6KWN	139	0	33	13,761
* AA6DX	203	622	53	98,209	Riverside				
Inyo					WA6KFX	77	152	44	23,580
WA6DZM	22	92	32	8,000	Sacramento				
Kern					* KI6O	330	972	57	167,238
W6SX	133	11	38	15,998	K6SG	119	720	55	98,835
Lake					KV6H	122	688	53	92,326
* K6HNZ	0	1659	57	189,126	N6ESV	0	263	44	23,144
Los Angeles					N6JM	57	83	33	11,121
AA6RX	89	1085	57	138,909	San Benito				
N6HC	211	689	54	108,594	WA6OCV	1	470	56	52,808
N6COG	0	301	48	28,896	(M-S; WA6OCV, N6RZ ops)				
AJ6O	151	1908	57	243,333	San Diego				
(M-S; AJ6O, N5FA, KE6EL ops)					AA6EE	253	0	44	33,396
K6AA	274	455	54	93,528	San Joaquin				
(M-S; WB6HEU, WD8AGN, KN6C ops)					W6MYP	153	136	42	30,702
Madera					San Luis Obispo				
* N6AU/6	16	1	11	550	W7CB/6	27	204	44	21,516
Marin					San Mateo				
K6LRN	82	1	35	8,680	N6BV	282	1488	58	221,676
K6YA	259	400	53	83,581	N6NF	129	869	56	119,000
(M-M; W8RPA, N6EAF, KA6MPK,					K6MO	269	0	41	33,087
WA6LIJ, K6MA, KA6FRY, KA6LTJ,					KA6HDK	0	44	19	1,672
and N6BZA, ops)					K6XO/M6	12	26	17	1,496
Mono					N6AHA	105	1298	57	165,927
N6AU/6	19	0	13	741	(M-S; N6AHA, KB7SC, KD6ZY ops)				

Santa Clara
 * N6BT 325 1998 57 283,347
 (WA6VEF, op)
 N6QW 270 933 58 155,208
 AA6G 41 1227 57 146,889
 AJ6V 174 685 54 102,168
 WB6DSV 151 226 49 44,345
 W6PRI 58 0 20 3,480

Santa Cruz
 WA6OCV 0 3 1 6

Solano
 * K6HIH 436 395 55 115,390

Sonoma
 * KB6ZA 3 1191 57 136,287
 K6ANP 188 904 55 130,460

Trinity
 * WB6NBE 0 240 49 23,520

Tuolumne
 N6IP 0 496 49 48,608
 (M-S; N6IP, N6CDJ, WB6NBR ops)

Ventura
 * N6TR 310 2063 58 293,248
 KD6LB 0 397 52 41,288
 N6VR 66 139 40 19,040

Yolo
 * N6JV 196 528 54 88,776
 K6CSL/6 86 48 31 10,974

OUT OF STATE SCORES

Alabama
 * KD4XR 0 342 47 32,148
 K4ZGB 80 169 45 26,010

Alaska
 NL7D 0 178 31 7,316

Arizona
 * K7GM 156 187 41 34,522

Arkansas
 KE5B 112 123 40 23,280
 K5GOE 0 22 17 748

Colorado
 NØBYP 21 64 28 5,348

Connecticut
 * W1GMR 189 113 44 34,892
 WA1FCN 131 149 47 32,477
 KF1B 0 19 14 532

Delaware
 * N8NA/3 70 66 31 10,602

Florida
 * N4BAA 141 312 49 51,303
 K4ZT 130 34 35 16,030
 WA4OML 143 0 29 12,441
 KA4JZS 36 47 35 7,070
 N4FOC 0 49 21 2,058
 KA4DRM 0 12 6 144

Georgia
 K4BAM 31 0 15 1,395

Idaho
 WB7TJI 50 47 33 8,052

Illinois
 * WAØAVL 171 497 52 78,364
 K9BG 88 109 40 20,080
 KB9E 73 93 37 14,985
 W9REC 44 64 36 9,360
 W9QWM 22 88 34 8,228
 KC9DL 0 51 24 2,448

Indiana
 KA9IQQ 3 85 30 5,370

Iowa
 * WDØEWD 168 501 54 81,324
 KJØD 60 170 38 19,760
 WAØVBW 36 119 40 13,840

Kansas
 WDØFNI 95 133 40 22,040
 NØCLV 23 96 34 8,874
 KBØKX 0 127 34 8,636

Kentucky
 NO4P 0 117 36 8,424

Maine
 WB1GLH 57 214 43 25,757
 W1CTR 0 16 12 384

Maryland
 K3ZZ 47 70 30 8,430
 W3ICM 0 22 17 748

Michigan
 * W8WVU 165 0 36 17,820
 W8YL 61 0 27 4,941

Minnesota
 * AJØP 0 305 47 28,670
 NØBOC 0 278 45 25,020
 KEØA 65 111 40 16,680
 WDØBIE 49 116 41 15,539

Mississippi
 WB5GRI 0 57 33 3,762

Missouri
 KØTBB 89 66 40 15,960

Nebraska				
AKØG	24	94	30	7,800
New Hampshire				
* K1ITS	157	111	41	28,413
W1ICU	0	74	32	4,736
New Jersey				
* N2AEW	108	102	41	21,648
WB2CST	172	0	33	17,028
KC1K/2	120	28	36	14,976
K2PF	66	69	34	11,424
N2CIW	0	97	34	6,596
W2CC	0	1	1	2
New Mexico				
K5QQ	0	94	32	6,016
N5ACP	0	31	17	1,054
New York				
WB2TKD	0	120	37	8,880
W2MEI	67	0	26	5,226
WA2UDT	10	58	27	3,942
WB2OFV	0	44	21	1,848
K2POF	3	28	18	1,170
North Carolina				
KB4XK	23	95	34	8,806
North Dakota				
NØCZO	0	39	19	1,482
Ohio				
KA8JRI	85	138	40	21,240
KA8IGM	101	104	35	17,885
WD8IDD	0	139	42	11,676
WD8ALG	35	98	30	9,030
AA8S	0	40	21	1,680
Oklahoma				
* N5AFV	0	164	44	14,432
Oregon				
K7VM	68	47	32	9,536
Pennsylvania				
* W3HDH	152	166	42	33,096
AD8J/3	59	92	40	14,440
W3ARK	52	79	34	10,676
KA3DSW	0	101	37	7,474
WA3GNW	10	67	32	5,248
WA3JXW	31	28	22	3,278
WB3KNJ	0	55	23	2,530
KA3HEJ	0	31	18	1,116
Rhode Island				
N1RI	25	25	24	3,000
South Carolina				
WA4YUU	0	101	34	6,868
K4BZD	0	48	20	1,920

Tennessee				
KD4PP	75	140	39	19,695
N4ARO	56	35	32	7,616
W4OGG	10	70	30	5,100
Texas				
* WA5DTK	154	249	48	46,080
WB5YXK	178	149	45	37,440
WB5KIA	78	208	47	30,550
W5PWG	0	159	36	11,448
W5NR	102	0	30	9,180
WA5IYX	0	109	31	6,758
KC5HO	0	74	30	4,440
Virginia				
K4OD	57	53	36	9,972
W4KMS	14	41	25	3,100
Washington				
WA6NHB/7	0	114	30	6,840
KB7EO	0	51	22	2,244
Wisconsin				
* K9GDF	101	144	43	27,520
Maritimes				
* VE1BNN	112	152	43	27,520
VO1AW	59	56	30	8,670
Manitoba				
VE4AAF	0	76	26	3,952
British Columbia				
VE7AVN	0	160	38	12,160
DX ENTRIES				
Japan				
JA1OP	46	0	23	3,174
JR7TJP	0	53	26	2,756
JHØLBQ	21	18	22	2,178
JA8CFA	0	30	17	1,020
JA8ILE	0	11	10	220
JA4VZX	0	9	9	162
JK1RJQ	0	5	5	50
JA4HCK	0	5	4	40
JA9YBA (MM)	23	64	31	6,107
JF1Yaq (MS)	5	45	27	2,835
JA1YUN (MS)	1	18	13	507
Europe				
SM3DXC	41	1	33	4,125
HB9AW	33	0	17	1,683
G4HBI	0	27	20	1,080
South America				
PY1NEZ	0	61	20	2,440
LU6EF	19	24	21	2,205
PY8ZLC	0	11	9	198

CALIFORNIA QSO PARTY ALL TIME SINGLE OPERATOR RECORDS

ALAMEDA	W6SZN	80	232,788	1939	57	ALABAMA	KD4XR	81	32,148	342	47
ALPINE	W6XB	79	70,700	707	50	ALASKA	AL7H	80	9,826	110	34
AMADOR	K6CQF	75	136,304	1217	56	ARIZONA	K7GM	81	34,522	343	41
BUTTE	K6OQ	78	35,700	357	50	ARKANSAS	WA5DTK	79	24,012	261	46
CALAVERAS	WA6KXN	81	79,184	808	49	COLORADO	WBØIWL	75	9,348	123	38
COLUSA	K6HNZ	80	97,240	884	55	CONNECT.	W1GNR	81	34,892	302	44
CONTRA CO.	N6RO	80	134,064	1111	56	DELAWARE	N8NA/3	81	10,602	136	31
DEL NORTE	W6NAT	77	36,676	346	53	FLORIDA	N4BAA	81	51,303	453	49
EL DORADO	W6TPH	79	193,820	1762	49	GEORGIA	N4NX	79	26,602	283	47
FRESNO	W6DPD	77	8,584	116	37	HAWAII	AH6BL	79	8,514	129	33
GLENN	K6HNZ	80	97,240	884	55	IDAHO	WA1PID	75	54,172	467	58
HUMBOLDT	WB6SXJ	79	139,810	1271	55	ILLINOIS	WAØAVL	81	78,364	668	52
IMPERIAL	WB6RMG	75	44,086	469	47	INDIANA	W9STW	75	13,158	153	43
INYO	WA6DZM	79	128,336	1234	52	IOWA	WDØEWD	81	81,324	669	54
KERN	W6BYH	80	53,459	441	49	KANSAS	WDØHAP	79	28,350	315	45
KINGS	K6OZL	75	17,040	213	40	KENTUCKY	WA4QMQ	79	21,216	221	48
LAKE	K6PJY	78	33,026	337	49	LOUISIANA	W5WG	80	26,160	253	40
LASSEN	W6PBG	76	13,394	181	37	MAINE	WB1GLH	80	12,617	168	37
LOS ANG.	KB6FT	79	201,956	1741	58	MD-DC	WB3IXC	79	24,990	258	44
MADERA	N6AU	81	550	17	11	MASS	WB1HIH	80	16,335	168	33
MARIN	W6JZZ	75	35,010	389	45	MICHIGAN	W8WVU	81	17,820	165	36
MARIPOSA	W9OIJ	69	15,689	167	47	MINNESOTA	AJØP	81	28,670	305	47
MENDOCINO	AE6U	79	135,740	1234	55	MISS.	W5SX	78	5,200	100	26
MERCED	WB6TQS	76	28,576	304	47	MISSOURI	NØRJ	78	23,220	258	45
MODOC	K6XB	78	5,376	112	24	MONTANA	W7JYW	75	19,006	221	43
MONO	N6AU	78	6,188	91	34	NEBRASKA	WØEKB	79	23,520	240	49
MONTEREY	KQ6V	81	109,497	925	57	NEVADA	WA7NIN	76	33,696	432	39
NAPA	K6XO	81	24,726	267	39	NEW HAMP	K1ITS	81	28,413	268	41
NEVADA	AI6V	81	215,180	1855	58	N JERSEY	N2AEW	81	21,648	210	41
ORANGE	K6LL	77	173,536	1496	58	N MEXICO	N5RR	80	15,894	173	37
PLACER	W6SZN	81	121,275	953	55	NEW YORK	N2ALK	79	13,416	172	39
PLUMAS	K6KWN	81	13,761	139	33	N CAROLINA	WA4GLE	79	12,836	172	38
RIVERSIDE	WA6KFX	80	43,142	385	45	N DAKOTA	WDØCCL	78	15,200	190	40
SACTO.	KI6O	81	167,238	1302	57	OHIO	AA8S	79	23,970	255	47
S.BENITO	W6JQC	80	63,350	545	50	OKLAHOMA	N5AFV	81	14,432	164	44
S.BERNA.	WB6DAW	76	42,188	398	53	OREGON	W7CB	80	19,184	200	44
S.DIEGO	W6RDF	75	111,940	965	58	PENNA	W3HDH	81	33,096	318	42
S.FRAN.	N6BV	79	232,560	2040	57	RHODE IS	K1JA	79	13,104	168	39
S.JOAQ.	K6AYA	76	101,640	965	58	S CAROL	K4BZD	78	7,722	117	33
S.LUIS OB.	W7CB	77	106,040	964	55	S DAKOTA	WØWUU	78	3,100	62	25
S.MATEO	N6BV	80	268,296	2118	56	TENN	K4LTA	80	36,585	340	45
S.BARB.	W6OUL	80	165,642	1301	57	TEXAS	WA5DTK	81	46,080	403	48
S.CLARA	N6BT	81	283,347	2323	58	UTAH	WA7KZP	71	2,204	76	39
S.CRUZ	N6RZ	80	276,892	2338	58	VERMONT	WA1IHN	67	1,224	68	18
SHASTA	AA6DX	79	168,376	1619	52	VIRGINIA	WA4KKP	76	47,520	540	44
SIERRA	WB6YQW	79	15,336	213	36	WASH	N7ZZ	77	52,704	488	54
SISKIYOU	K6ITL	75	6,384	133	24	W VA	WA8CNN	75	3,264	48	34
SOLANO	K6HIH	81	115,390	831	55	WISCONSIN	K9GDF	81	23,049	245	39
SONOMA	KB6ZA	81	136,287	1194	57	WYOMING	K3ZMI	75	640	20	16
STANIS.	W6PXG	76	32,500	325	50	MARITIMES	VE1BNN	81	27,520	212	46
SUTTER	WA6TOO	78	93,138	817	57	QUEBEC	VE2ANE	79	1,776	37	24
TEHAMA	K6HNZ	78	93,060	846	55	ONTARIO	VE3DAP	79	16,112	212	38
TRINITY	WB6NBE	81	23,520	240	49	MANITOBA	VE4VV	79	12,768	168	38
TULARE	WA6KMW	77	14,400	200	36	SASK	VE5US	75	5,680	71	40
TUOLUMNE	N6IP	79	38,976	406	48	ALBERTA	WB6IFA	69	1,407	67	21
VENTURA	N6TR	81	293,248	2373	58	BRIT.COL.	VE7DSA	77	20,056	218	46
YOLO	N6JV	81	83,776	724	54	NWT-YUKON	NO ENTRY				
YUBA	W6NJU	75	6,262	101	31	ASIA	JA1OP	81	3,174	46	23
						EUROPE	SM3DXC	81	4,125	42	33
						S AMER.	PY1NEZ	81	2,440	61	20

"SIMPLE METHODS USED TO REDUCE HI-FI
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BY: W6BIP

10:00AM SATURDAY, APRIL 17 AT THE INTERNATIONAL DX CONVENTION, VISALIA, CA.

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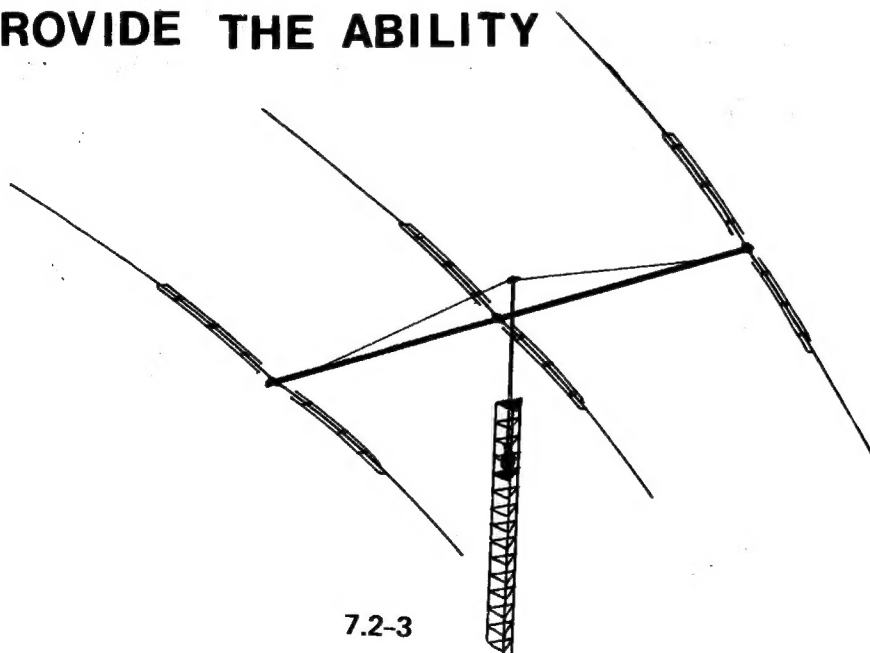
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7.2-3

SPECIFICATIONS

7.2-3

Frequency of operation: 7.0-7.3 MHz
(x200 KHZ @ less than 1.5:1 VSWR)
Gain: 6.5 dBd
F/B: 20 dB
Feed Impedance: 50 ohms unbalanced
Max element length: 46'
Boom length/Dia: 32'/3"
Weight: 70 lbs
Windload: 10 sq ft
For mast: 2" O.D.

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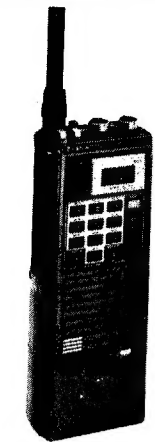
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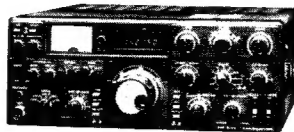
TR-7850



TS-130S



TS-830S

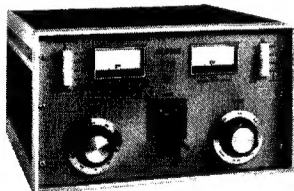


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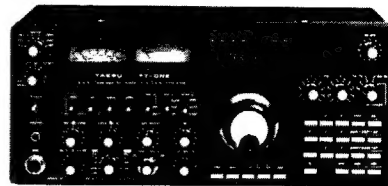


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